

INACTIVATED VIBRIO CHOLERA VACCINE IN TABLETS

Claims

What we claim is:

1. (Currently Amended) A vaccine composition for cholera ~~composed of~~  
comprising:
  - a. ~~Inactivated~~ inactivated cells of Vibrio cholera;
  - b. an agglutinant; Agglutinants
  - c. Lubricants a lubricant;
  - d. ~~Coating~~ a coating substance;
  - e. ~~Filling~~ a filling substance; and
  - f. ~~Disintegrating~~ a disintegrating substance
2. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said inactivated cells consisting of attenuated strains of Vibrio cholerae.
3. (Currently Amended) The vaccine composition ~~described in~~ of Claim 2, with said inactivated cells belonging to the serum group O139.
4. (Currently Amended) The vaccine composition ~~described in~~ of Claim 3, with said inactivated cells belonging to the serum group O1.

5. (Currently Amended) The vaccine composition ~~described in~~ of Claim 4, with further comprising El Tor or Classic type cells.
6. (Currently Amended) The vaccine composition ~~described in~~ of Claim 5, the said inactivated cells belonging to the Ogawa or Inaba serum type.
7. (Currently Amended) The vaccine composition ~~described in~~ of Claim 2, the said inactivated cells consisting of wild strains of *Vibrio cholerae*.
8. (Currently Amended) The vaccine composition ~~described in~~ of Claim 7, the said inactivated cells belonging to the serum group O139.
9. (Currently Amended) The vaccine composition ~~described in~~ of Claim 8, the said inactivated cells belonging to the serum group O1.
10. (Currently Amended) The vaccine composition ~~described in~~ of Claim 9, with further comprising El Tor or Classic bio-type cells.
11. (Currently Amended) The vaccine composition ~~described in~~ of Claim 10, with further comprising Ogawa or Inaba serum type cells
12. (Currently Amended) The vaccine composition ~~described in~~ of Claims 1 to 14 Claim 7, containing said vaccine composition being in the form of an oral administration unit, said unit between  $5 \times 10^9$  and  $10^{11}$  of said inactivated cells per tablet unit.
13. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said agglutinant being at least one selected from povidone, gelatin, or and carboxymethylcellulose ~~as an agglutinant~~.

14. (Currently Amended) The vaccine composition ~~described in~~ of Claim 13, with the agglutinants ~~found at~~ being in a concentration of between 1 and 5% by weight of the tablet's total mass of the unit.
15. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said lubricant being at least one selected from sodium carboxymethylstarch, magnesium stearate, silicon dioxide, ~~or~~ and talc ~~as a lubricants.~~
16. (Currently Amended) The vaccine composition ~~described in~~ of Claim 4 12, the lubricants ~~found at~~ being in a concentration between 0.25 and 1.5% by weight of the tablet's total mass of the unit.
17. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said coating substance being at least one selected from cellulose acetophthalate, cellulose diethylphthalate, lacquer ~~at 10% or~~ and titanium dioxide ~~as a coating substance.~~
18. (Currently Amended) The vaccine composition ~~described in~~ of Claim 47 12, with the said coating substance ~~found at a~~ being in concentration between 1 and 2% by weight of the tablet's total mass of the unit.
19. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said filling substance being at least one selected from lactose ~~or~~ and cornstarch ~~as filling substance.~~

20. (Currently Amended) The vaccine composition ~~described in~~ of Claim 19 12, the filling substance ~~found at~~ being in a concentration between 65 and 80% ~~that of tablet's total~~ the mass of the unit.
21. (Currently Amended) The vaccine composition ~~described in~~ of Claim 1, with said disintegrating substance being at lease one selected from sodium croscarmellose, cornstarch ~~or~~ and micro-crystalline cellulose ~~as a disintegrating substance~~.
22. (Currently Amended) The vaccine composition ~~described in~~ of Claim 2412, the disintegrating substance ~~found at~~ being in a concentration of between 1 and 6% by weight ~~that of the tablet's total~~ mass of the unit.
23. (New) The vaccine composition of claim 12, said oral administration unit comprises a tablet.
24. (New) The vaccine composition of claim 1, said composition being formed into a tablet for oral administration of the vaccine for cholera.
25. (New) A vaccine composition for cholera comprising an oral administering unit comprising inactivated cells of vibrio cholera.
26. (New) The vaccine of claim 25, said cells comprises whole cells.